Robert Berger Collection Finding Aids

Robert L. Berger Collection Finding Aid

March 2020

Summary Information

Title: Robert L. Berger Papers (1926-2017)

Creator: Berger, Robert L.

Dates:

Extent: 47 boxes
Abstract:

In 1962, Dr. Robert L. Berger joined the Laboratory of Technical Development as a senior scientist in the National Heart, Lung, and Blood Institute (NHLBI) of the National Institutes of Health in Bethesda, MD. In 1977, he was named chief of a Section on Biophysical Instrumentation, a post he held until 1994. He also served as Invention Development Coordinator for NHLBI from 1988-1994. He published more than 100 scientific papers over his thirty-two-year career and was awarded several patents for instruments he developed, many of which are part of the NIH Stetten Museum collection.

Language: Collection materials primarily in English

Location: Materials stored at the Office of NIH History and Stetten Museum on the NIH campus. Contact the office for scheduling at 301-496-6610 or 301-496-7695.

Access and Use

Provenance:

These files were transferred at various times from Dr. Robert Berger or his family after his death.

Access Restrictions:

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Preferred Citation:

Robert L. Berger Papers. Located in the Office of NIH History and Stetten Museum, National Institutes of Health.

Biography

Dr. Robert L. Berger was born in Omaha, Nebraska, and spent much of his childhood in St. Joseph, Missouri. In 1943, after graduating from high school, he joined the U.S. Merchant Marine as a radio operator stationed largely in the Pacific Theater from 1943-46. He earned his B.S. degree in physics and mathematics at Colorado State University in 1950 and his M.S. and Ph.D. in physics at the Pennsylvania State University in 1953 and 1956, respectively. In 1956-57, he was a British-American Postdoctoral Exchange Fellow of the American Cancer Society at Cambridge University. From 1957 to 1962, he rose from assistant professor to associate professor of physics at Utah State University. In 1962, he joined the Laboratory of Technical Development as a senior scientist in the National Heart, Lung, and Blood Institute (NHLBI) of the National Institutes of Health in Bethesda, MD. In 1977, he was named chief of a Section on Biophysical Instrumentation, a post he held until 1994. He also served as Invention Development Coordinator for NHLBI from 1988-1994. He published more than 100 scientific papers over his thirty-two-year career and was awarded several patents for instruments he developed.

In 1994 Dr. Berger left NHLBI and joined the Blood Research Detachment as a senior investigator at Walter Reed Army Institute of Research (WRAIR) in Silver Spring, Maryland. He retired from federal service in 1996. In retirement, he oversaw WRAIR's student intern program in collaboration with Pennsylvania State University's Eberly College of Science. For his service, in 1997, the U.S. Department of Defense awarded him its Commanders Award. In 1998, he received the Eberly College Alumni Society's highest honor, its Distinguished Service Award, and in 2002, Penn State named him Honorary Grand Marshall of its Homecoming parade.

Dr. Berger was elected a Fellow of the American Physical Society and the American Association for the Advancement of Science. He was an early member of the Biophysical Society and was an organizer of the Biophysical Discussions, small meetings that focus on cutting-edge or emerging topics in biophysics. He was also a member of the British Biophysical Society, the Red Blood Cell Club, the Society of General Physiologists, the American Society of Molecular Biology and Biochemistry, and the Society of Sigma Xi.

Collection Scope and Content Note

Consists of correspondence, research notebooks, reports, diagrams, articles, photographs, and other materials relating to topics such as calorimetry, spectrometry, flow apparatus, mixing, and thermometry.

Subject Terms

Index Terms

These terms are indexed in the National Library of Medicine's online catalog LocatorPlus. Researchers wishing to find related materials should search the catalog using these terms.

MeSH Subjects

Box List

Box 1

Berger, Robert L. Chronological 1949-1951

Notebook: Electrical Measurements (class notes) 6/30/1949-1956

Notebook: Radio Lab Notes 1/10/1956 - 1958 Notebook: Chemical Thermodynamics 9/18/1951

Notebook: Theoretical Physics 9/17/1951 – 1952

Notebook: Physics (class notes) 4/23/1952 - 3/12/1952

Theoretical Physics p. 530 (Part I) 1951 Class Notes: Statistics 1950-1951

Box 2

Berger, Robert L Chronological 1952 – 1953/1954

Class Notes: Theoretical Physics II p. 531

Notebook: Class notes: Math Theory 1952-1955 Class Notes: Quantum Mechanics 1952-1953; 1 of 2 Class Notes: Quantum Mechanics 1952-1953; 2 of 2

Class Notes: Chemistry 1953

Class Notes: Kinetic Theory 1953

Class Notes: Techniques in experimental biochemical dynamics [1953?]

Class Notes: Advanced Electricity 1953 - 1954

Class Notes: Advanced Physics; Penn State 1953 – 1954

Class Notes: Biophysics 1953 – 1954; 1 of 2 Class Notes: Biophysics 1953 - 1954; 2 of 2

Class Notes: Chemical Thermodynamics; Penn State 1953 - 1954

Berger, Robert L. Chronological 1954 - 1958

Class Notes: 1954 – 1955; 1 of 2 Class Notes: 1954 – 1955; 2 of 2

Class Notes: Bacterial Physiology 1955

Laboratory Notebook: Colloid Science 1956

Correspondence: 1958 Research Notes: 1958

Notebook (including some loose pages) Summer Institute Nuclear Reactor Theory 1958

Box 4

Berger, Robert L Chronological 1959 - 1961

Correspondence: 1959

Professional Activities: Grants 1959

Research Projects: Edgerton, Germeshausen, and Grier, Inc. (EGG) 1959; Exploding wire and gun studies; 1 of 2 Research Projects: Edgerton, Germeshausen, and Grier, Inc. (EGG) 1959; Exploding wire and gun studies; 2 of 2

Research Projects: Edgerton, Germeshausen, and Grier, Inc. (EGG) 1959; Preliminary report gun range experiment #5

Research Projects: Edgerton, Germeshausen, and Grier, Inc. (EGG) 1959; Progress report Environment Physics Dept.

Correspondence: 1960; 1 of 2 Correspondence: 1960; 2 or 2

Research Projects: Active Transport in Cell Membranes 1960

Correspondence: 1961; 1 of 2 Correspondence: 1961; 2 of 2

Box 5

Berger, Robert L. Chronological 1962 – 1964

Correspondence: 1962; 1 of 2 Correspondence: 1962; 2 of 2

Research Notes: 1962 Correspondence: 1963 Research Notes: 1963

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Research Notes: Delong, Chester W 1963

Research Notes: ESR #1 1963

Research Projects: Solubilities and Diffusion of Gases 1963

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Research Notes: Balko 1964

Research Notes: Smootz et al 1964

Berger, Robert L. Chronological 1965 - 1966

Correspondence: 1965 Research Notes: 1965

Research Notes: Balko book 2 1965 Research Notes: Balko book 3 1965 Research Notes: Mitchell 1965; 1 of 2 Research Notes: Mitchell 1965; 2 of 2

Research Notes: Spectrophotometry 1965 – 1969

Correspondence: 1966 Research Notes: 1966

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Berger, Robert L. Chronological 1967

Correspondence: 1967 Research Notes: 1967

Research Notes: Balko 1967; 1 of 2 Research Notes: Balko 1967; 2 of 2

Research Notes: Balko Test App[lication] Book #5 1967

Box 8

Berger, Robert L. Chronological 1968 – 1970

Correspondence: 1968
Research (Articles): 1968
Research Notes: 1968
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Berger, Robert L. Chronological 1971 - 1973/1974

1971 - 1973 (including Research Notes 1973 - 1974 1 folder)

1973 – 1974 1 folder Correspondence: 1971 Research Notes: 1971

Research Notes: American Red Cross Blood Program 1971

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Laboratory Notes: Enzymes: 1972

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Laboratory Notebook: Stopped Flow Calorimeter 1973

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Berger Robert L. Chronological 1974 – 1977

Correspondence: 1974

Research (Grant Review): 1974

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Correspondence: Instrumentation, Geoscience 1976

Research Note: Wertzel 1976

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Research Notes: Electrodes 1977

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Research Notes: Mossbauer Effect 1978

Research Projects: Syringe Drive Unique 1978

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Research Notes: Bucci, Enrico 1979

Research Projects: SOL Directory & Software; Dossi, G 1979

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Research Projects: Calibration of Microcalorimeter 1981

Research Projects: High Resolution Clinical Thermometer 1981

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Berger, Robert L. Chronological 1982 - 1986

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Research Projects: Syringe Drive Apparatus 1982

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Research Notes: Microcalorimeter - New Flow 1986

Research Projects: Tantalum Mixer 1986

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Berger. Robert L. Chronological 1987 - 1990

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Research Projects: Berger - Chemical Digital Temperature Controller 1987

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Research Notes: Davids, N et al 1990 Research Projects: OEC Analyzer 1990

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Berger, Robert L. Chronological 1994 – 2000

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Berger, Robert L. Diagrams 1959 – 1969

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Berger Syringe Drive – 46 folders multiple parts: 1967

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Aminco - Berger Calorimeter: 1968

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Thermal Sensor for Stopped Flow Apparatus Calorimeter: 1969

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Berger, Robert L. Diagrams 1972-1979

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Berger, Robert L. Diagrams 1980 -

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Tantalum Mixer Assay - Stopped Flow Calorimeter: 1984

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Time Resolved Fluorimeter: 1985

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Berger Stop-Flow Micro-Biocalorimeter

Berger Stop-Flow Syringe Drive Apparatus Handbook

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Durrum Stopped-Flow Spectro-Photometer

Fast Reaction Apparatus

Galbracth Laboratories, Inc.

Galvanometer Amplifier: late 1950s

Kel-F Components for Liquid Chromatography

Lamp Control System

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Mixer Holder and Mixer Assembly: 1965

Nonchromators Grating Instruments

OEC - Hemoglobin-Oxygen Equilibrium Curve Analyzer

OEC - PO2 Optical

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Berger, Robert L. Oversized Items and Media

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Notebook #5 Heat Conduction

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Notebook Mosshauser Effect Apparatus Programs: 1978 – 1979

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Berger, Research Instruments: 1963 - 1967

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Chromatogram Analyzer

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System Program: 1983 - 1985

Stoddart: 1962 - 1964

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Wertzel, Cris: May - July 1977

Box 32

Berger, Robert L. Research Projects. A - C (Alphabetic)

Alben, James O.

Batch Calorimeter Warsaw - Cadarache Test: 1974 - 1982 (Davids)

Biochemical Standards for Clinical Use

Bionetics Corp. – Hemoglobin Production in Red Blood Cell Storage: 1995

Blackbody Radiation Functioning

Blair, David

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Calorimeter Thermister: early 1970s

Calibration of the Calorimeter

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DNA Model - Bradley, DR

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Fluorescence Scanning 1960s

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Galium Melting - Point Standards National Bureau of Standards

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Berger, Robert L. Research Projects. H-In (Alphabetical)

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High Resolution Thermometer: 1987

Hoya Corp. San Jose, CA

Hydrodynamics Mixing - Turbulent Flow

Hydrolysis Adenosine Tri Posphate (ATP)

IMAI Cell: 1984

Inertial Pulse Flow Apparatus: 1983-1988

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Ingold, W.

Instrumentation Laboratories Inc. La Jolla, CA

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Berger. Robert L. Research Projects. Ir-M (Alphabetic)

Iron Calorimeter Procedures (Computer Program)

ISO-Electric Focusing

Kidney Table of Diffusion/Clinical Reaction: 1970

Kinetics

Kinetics of Myoglobin

Mark III Pre-Equilibrator/Microcalorimeters

Martin, Charles J.: 1984

Mermelstein, Andrew L: 1990

Measure Absolute/Differential Temperature: 1979

Microclimate/Calon

Micro-Precision Product Inc:/Syringe Drive

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Mossbauer Specteroscopy: 1981-1985

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Berger, Robert L. Research Projects. N-Pr (Alphabetic)

NIR Accelerated Flow/ATP Studies

Nuclear Reactor Simulator and Power Plant Simulator

Nuclear Reactor Laboratory Manual: 1958

OEC -(Oxygen Equilibrium Curve)

OECA- (Oxygen Equilibrium Curve Accuracy)

Olis Online Instrument Systems, Inc. Jefferson GA

Optical Ph, PCO2, PO2

Oxygen Equilibrium Curve (OEC)

Ph Thermal Titration Application

Photo Multipliers

PI Determination (Phosorous)

PMI Motion Technologies Thermistor Bridge: 1994

Procedure for Running OECA: 1990s

Program for IMI: 1991

Program Reports

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Berger, Robert L. Research Reports. Pu - W (Alphabetic)

Pulse Accelerated Flow Apparatus Instrument

Raman Difference Data Collection

Rapid Reactions - Film Talk

SBIR (Small Business Innovation Research): 1995 (Computer Model of Red Blood Cells Chemistry)

SBIR - Edward DeLand: 1997

Seaman, Geoffrey

Section description of the Laboratory of Development, NHLBI

Sickle Cell

Software Construction, Inc. Adair (Edward DeLand)

Spectrometry

Stop Flow Enzyme Studies

Submicron, Inc.

Suga, Hiroshi (1988-1989)

T-Jump Cell

Tantalum Stop Flow

Thermal Stop Flow Apparatus: 1989

Thermister Electrics

Thermister Hardware

Titration of Proteins

Transport of Oxygen and Carbon Dioxide

Wanman, Chris A./Quench Flow Apparatus

Berger, Robert L. Personal and Biographical

Personal and Biographical

American Institute of Biological Sciences

Biophysical Society: 1983 - 2001

Budget and Pay Grade

Gallup's Island Radio Association Merchant Marines Boston, MA

Gifts and Acknowledgements

Grant Application "The Effect of Gamma Rays on the Hemolysis of Red Cells: 1958

Green, Maurice Fellowship

Hess, John R. AAAS Fellowship

Instruments Donation Africa

Levin, Ira W. Langmuir Prize

Official Visits by Dignitaries

Pennsylvania State History: 1952 - 1956

Pennsylvania State University: 1997 - 2002

Personnel Lists

Photos Miscellaneous

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Staff Stephens, Sally M.

Supplies Galbraith Laboratories

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Meetings and Conferences

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National Bureau of Standards Medical Thermometry Program

Presentations Industrial Institute of Microbiology

Presentations, Microcalorimeter

Presentations NHLBI: 1991

Program Plans

Reviews and Research Notes

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Students - Wilson, Christina: 1994

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Walter Reed Army of Research - HPF - RFP: 1996, 1998

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Berger, Robert L. Other Researchers' Publications. A - Ch (Alphabetic)

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Articles

Notes and Correspondence

Davies, R. E.

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Berger, Robert L. Other Researchers' Publications. Everse – Mc (Alphabetic) Everse, Johannnes (correspondence, grants, program reports) Forster, Robert E. Gawrisch, Klaus Gershfeld, Norman L. Hess, John R. Hoy, Gilbert R. Keilin D. Liesegant, Gerald W. Lumry, Rufus Marini, Mario A. McCray, James A. Meyer-Arenot, Gurgen R.

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Berger, Robert L. Other Researchers' Publications. Mu - Ros (Alphabetic)

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Perella, Michele

Peretz, Max F.

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Rifkind, Joseph M.

Rossi-Berardi, Luigi

Articles

Correspondence and Research

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Berger, Robert L. Other Researchers' Publications. Roughton – S (Alphabetical)

Roughton, F. J. W.

Articles: 1923 -1933 Articles: 1934 – 1948 Articles: 1950 – 1972

Shrager, Richard I.

Sutherland, J. W. H.

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Berger, Robert L. Other Researchers' Publications (Winslow) and Technical Reports (Berger)

Technical Report VII: Application of Computer Simulation by Finite Elements to the Kinetics of Biochemical Systems

Technical Report V: Analysis of Thermal and Molecular Diffusion by the Finite Element Method

Technical Reports I, II, III: Analysis of the Thermal Diffusion in a Cylindrical Calorimeter of Transient Heat Produced by Biochemical Reactions by Norman Davids and Robert L. Berger

Technical Report VI: High Speed Stopped Flow Microcalorimeter folder 1 of 2

Technical Report VI: High Speed Flow Microcalorimeter Computer Aided Design Expermental Procedures – Data Reconstruction by Bohdan Balko and Robert L. Berger folder 2 of 2

Technical Report 2: Thermal and biochemical Diffusion in Cylindrical Systems

Winslow, Robert M.: 1976 – 1996 folder 1 of 2
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Berger, Robert L. Publications: 1957 - 1997 and undated

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Technical Proposal: Differential Ph Thermal Titration Apparatus